ISO

Set using ISO screws

CRF-5090

GEP Model
General Export Model

SPECIFICATIONS

Circuit System:		13-transistor 10-diode superheterodyne 7-transistors for auxiliary circuit
Frequency Coverage:	AIR	108 – 136 MHz (2.78 – 2.2 m)
	FM	87.5 -- 108 MHz (3.42 – 2.78 m)
	LW	150 – 400 kHz (2000 – 750 m)
	MW	530 – 1,605 kHz (566 – 187 m)
	SW1	1.6 – 3.5 MHz (187 – 86 m)
	SW2	3.5 – 9.0 MHz (86 – 33 m)
	SW3	9.0 – 14.0 MHz (33 – 21 m)
	SW4	14 – 21 MHz (21 – 14 m)
	SW5	21 – 26 MHz (14 – 11 m)
Intermediate Frequency:	FM/AIR	10.7 MHz
	LW/MW/SW	455 kHz
Antenna System:	FM/AIR	telescopic antenna or external antenna (impedance 75 Ω)
	LW/MW	built-in ferrite bar antenna or external antenna (high impedance)
	SW	telescopic antenna or external antenna (impedance 75 Ω)
Sensitivity at 50 mW output, S/N 6 dB:	AIR	0.9 µV (–1 dB)
	FM	0.7 µV (–3 dB)
	LW	63 µV/m (36 dB/m)
	MW	24 µV/m (27 dB/m)
	SW1	1.2 µV (1 dB)
	SW2	1 µV (0 dB)
	SW3	1 µV (0 dB)
	SW4	1.2 µV (1 dB)
	SW5	1.3 µV (2 dB)

Selectivity at ±10 kHz off-resonance:		35 dB at 1,400 kHz
Power Output at 10 % distortion:		1.8 W
maximum:		2.7 W
Current Drain at zero signal:		FM 40 mA, MW 35 mA
maximum:		320 mA
Power Requirement:	DC	eight "D" size flashlight batteries 12 volts or car battery by using SONY car battery cord DCC-2AW
	AC	house current 100 V, 120 V, 220 V or 240 VAC; 50/60 Hz
Speaker:		10 cm x 15 cm (4" x 6"), 8 Ω
Dimensions:		340 mm (W) x 230 mm (H) x 160 mm (D) (13 3/8" x 9 1/16" x 6 5/16")
Weight:		6.6 kg (14 lb 9 oz) overall with batteries

SONY®

SERVICE MANUAL

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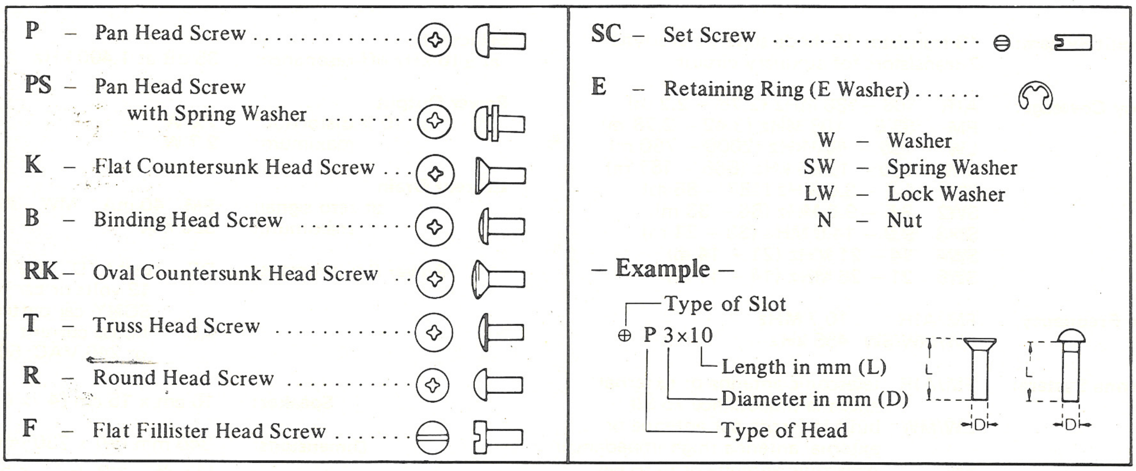
Hardware Nomenclature



P – Pan Head Screw . . . . ⊕
PS – Pan Head Screw with Spring Washer . . . . ⊕
K – Flat Countersunk Head Screw . . . ⊕
B – Binding Head Screw . . . . ⊕
RK – Oval Countersunk Head Screw . . ⊕
T – Truss Head Screw . . . . ⊕
R – Round Head Screw . . . . ⊕
F – Flat Fillister Head Screw . . . . ⊖

SC – Set Screw . . . . ⊖
E – Retaining Ring (E Washer) . . . . . .

W – Washer
SW – Spring Washer
LW – Lock Washer
N – Nut

– Example –

Type of Slot
⊕ P 3×10
Length in mm (L)
Diameter in mm (D)
Type of Head

When ordering replacement parts, you should use PART NUMBER listed on the Parts List or shown in the EXPLODED VIEW. The reference number should not be used for ordering purposes.

SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM

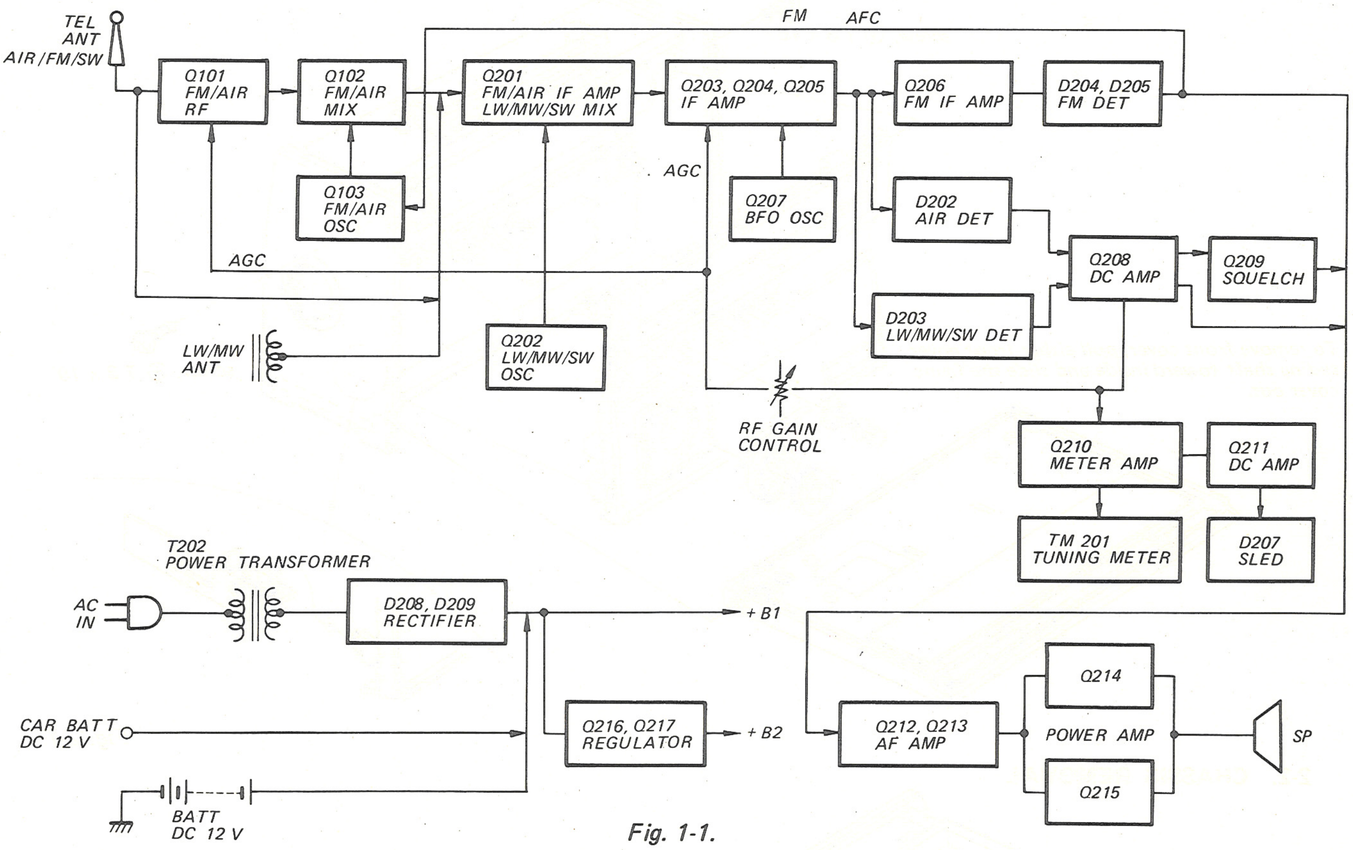
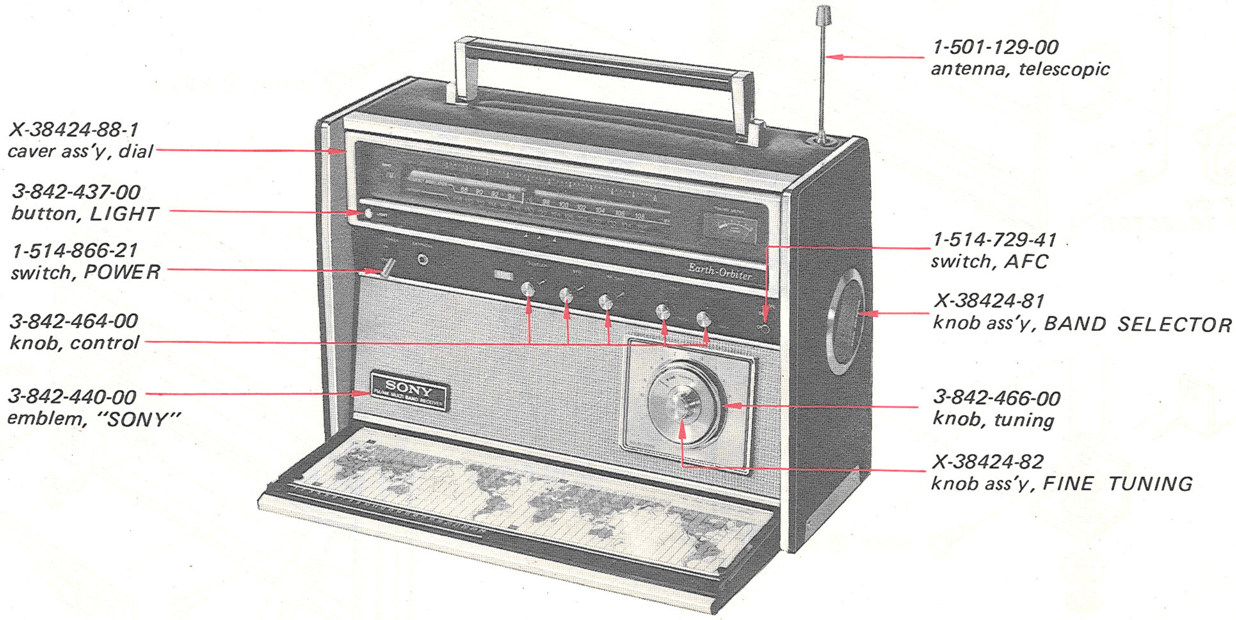

TEL ANT AIR/FM/SW
Q101 FM/AIR RF
Q102 FM/AIR MIX
Q103 FM/AIR OSC
Q201 FM/AIR IF AMP LW/MW/SW MIX
Q203, Q204, Q205 IF AMP
Q206 FM IF AMP
D204, D205 FM DET
FM
AFC
AGC
Q207 BFO OSC
D202 AIR DET
Q208 DC AMP
Q209 SQUELCH
D203 LW/MW/SW DET
AGC
LW/MW ANT
Q202 LW/MW/SW OSC
RF GAIN CONTROL
Q210 METER AMP
Q211 DC AMP
TM 201 TUNING METER
D207 SLED
T202 POWER TRANSFORMER
AC IN
D208, D209 RECTIFIER
+B1
CAR BATT DC 12 V
Q216, Q217 REGULATOR
+B2
BATT DC 12 V
Q212, Q213 AF AMP
Q214
POWER AMP
Q215
SP

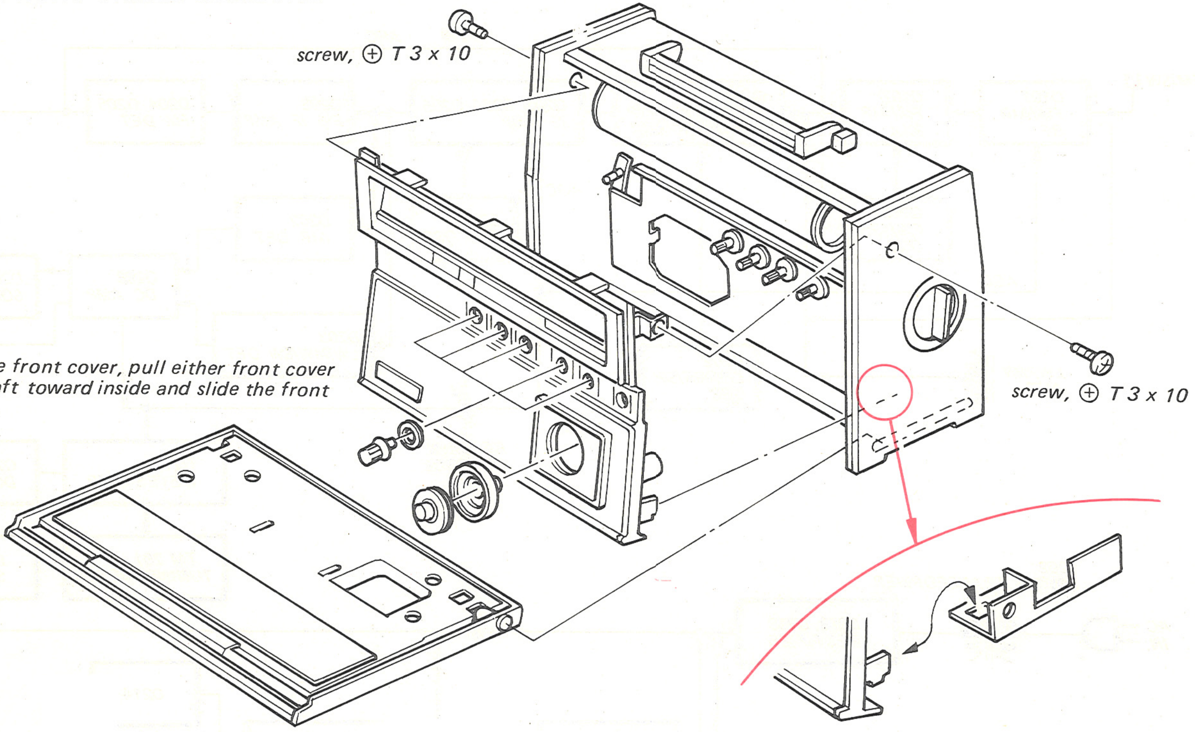
Fig. 1-1.

1-2. EXTERNAL VIEW


1-501-129-00 antenna, telescopic
X-38424-88-1 caver ass'y, dial
3-842-437-00 button, LIGHT
1-514-866-21 switch, POWER
1-514-729-41 switch, AFC
X-38424-81 knob ass'y, BAND SELECTOR
3-842-464-00 knob, control
3-842-440-00 emblem, "SONY"
3-842-466-00 knob, tuning
X-38424-82 knob ass'y, FINE TUNING
SONY
Earth-Orbiter

SECTION 2
DISASSEMBLY AND REASSEMBLY

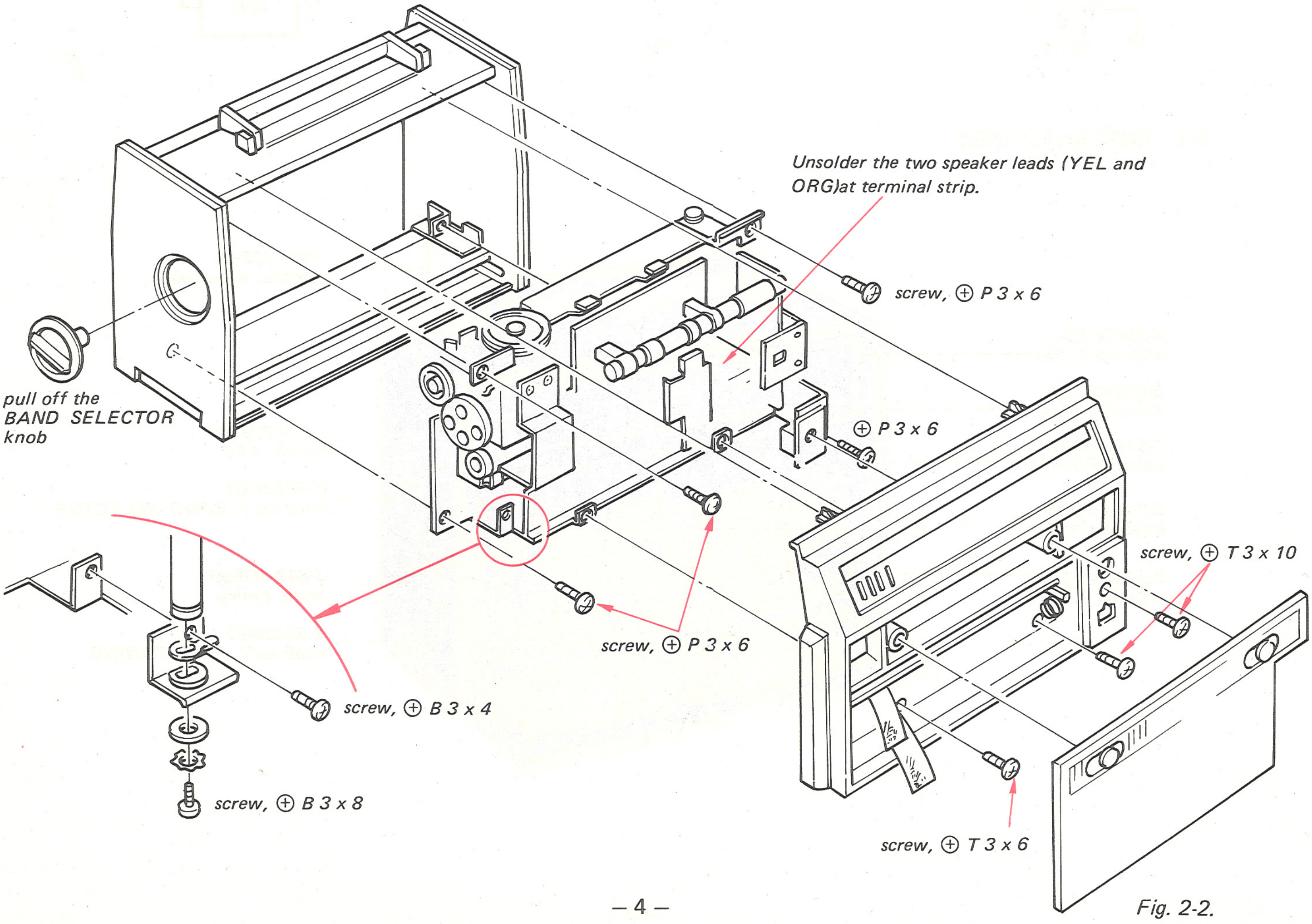
2-1. FRONT PANEL REMOVAL


screw, ⊕ T 3 x 10
screw, ⊕ T 3 x 10

To remove front cover, pull either front cover sliding shaft toward inside and slide the front cover out.

Fig. 2-1.

2-2. CHASSIS REMOVAL


screw, ⊕ P 3 x 6
⊕ P 3 x 6
screw, ⊕ T 3 x 10
screw, ⊕ P 3 x 6
screw, ⊕ B 3 x 4
screw, ⊕ B 3 x 8
screw, ⊕ T 3 x 6

Unsolder the two speaker leads (YEL and ORG)at terminal strip.

pull off the BAND SELECTOR knob

Fig. 2-2.

2-3. FM FRONT END REMOVAL

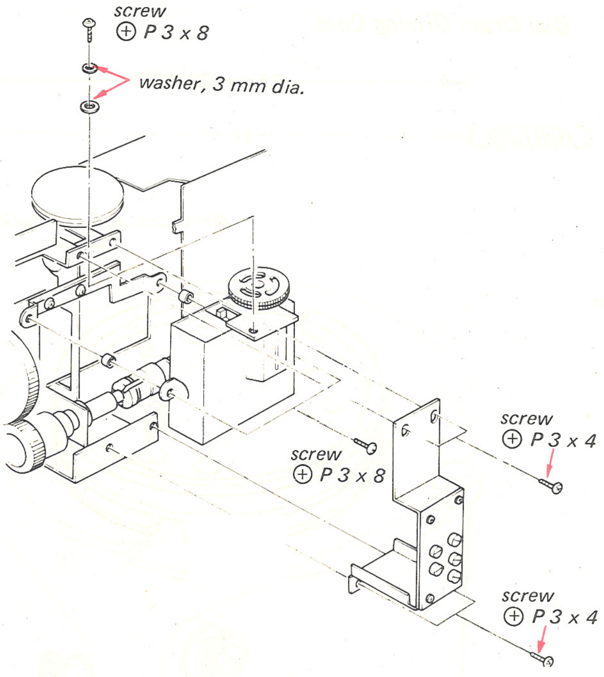

screw
⊕ P 3 x 8
washer, 3 mm dia.
screw
⊕ P 3 x 4
screw
⊕ P 3 x 8
screw
⊕ P 3 x 4

Fig. 2-3.

2-4. FM FRONT END REASSEMBLY

1. Rotate the dial drum fully clockwise and the double gear ass'y fully counterclockwise.
2. Attach the FM/AIR selector lever A on the FM/AIR selector switch.
3. Set the FM front end with three screws. See Fig. 2-3. above.

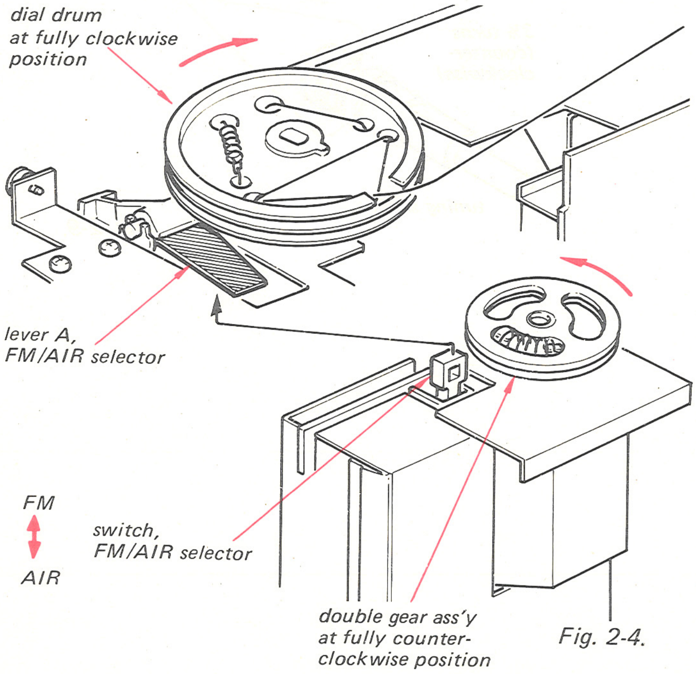

dial drum
at fully clockwise
position
lever A,
FM/AIR selector
FM
AIR
switch,
FM/AIR selector
double gear ass'y
at fully counter-
clockwise position

Fig. 2-4.

2-5. DIAL SCALE REASSEMBLY

1. Rotate the BAND SELECTOR knob fully clockwise.
2. Be sure that FM/AIR selector lever B is pushed upwards and that FM/AIR selector switch is pushed downwards.
   If not, remove the BAND SELECTOR knob and gear B and readjust the shaft of gear A by rotating idler.
3. Set the dial drum so that it shows AIR band and that the tip of the pointer is on the line of AIR band as shown in Fig. 2-6.

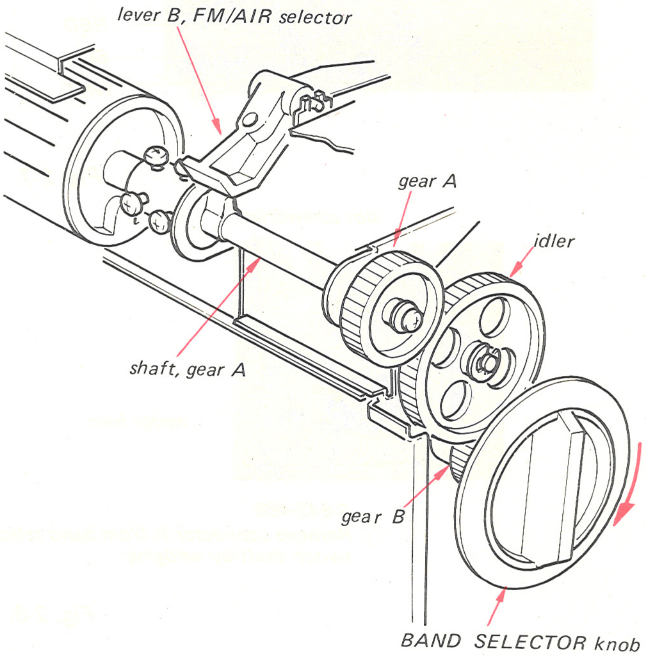

lever B, FM/AIR selector
gear A
idler
shaft, gear A
gear B
BAND SELECTOR knob

Fig. 2-5.

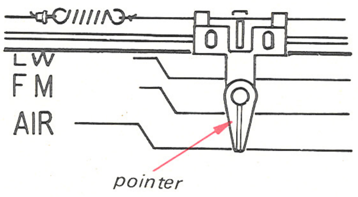
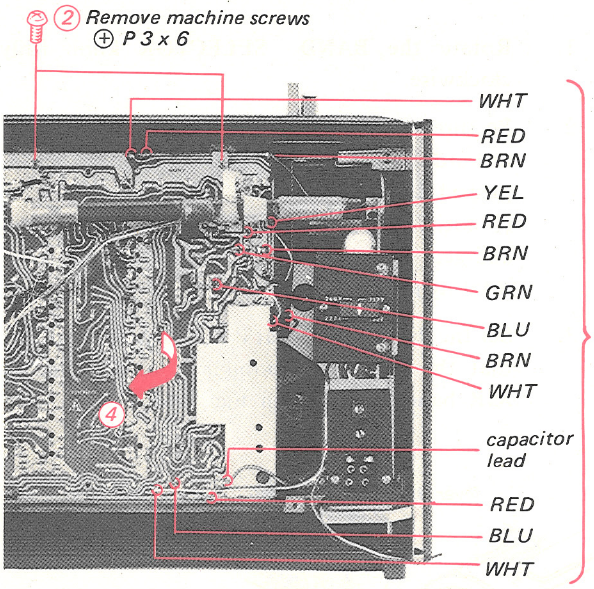

LW
FM
AIR
pointer

Fig. 2-6.

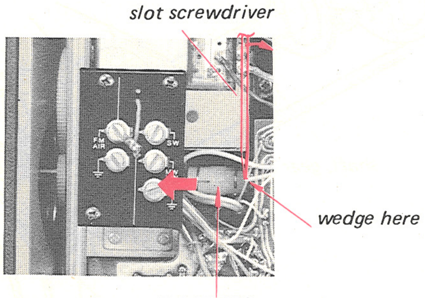
2-6. CIRCUIT BOARD REMOVAL


② Remove machine screws ⊕ P 3 x 6

① Unsolder leads

WHT
RED
BRN
YEL
RED
BRN
GRN
BLU
BRN
WHT
capacitor lead
RED
BLU
WHT
④

Fig. 2-7.


slot screwdriver
wedge here
3-842-488

③ Remove connector A from band selector switch shaft by wedging.

Fig. 2-8.

2-7. DIAL CORD STRINGING

Dial Drum Driving Cord

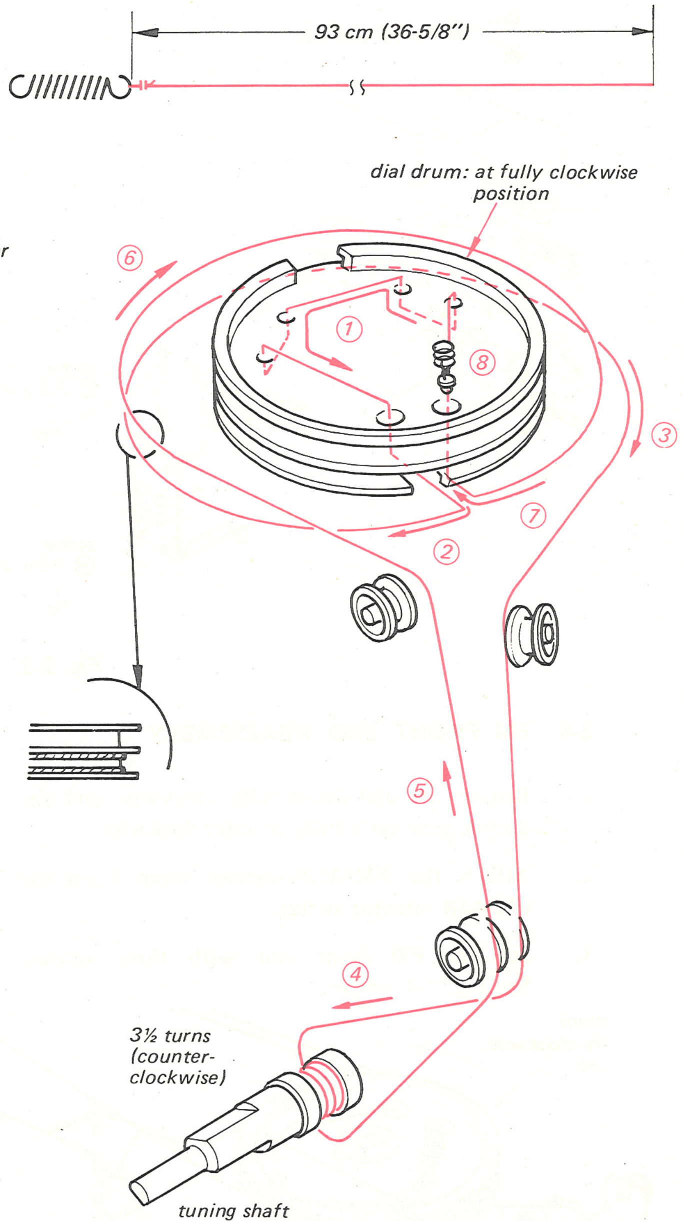

93 cm (36-5/8")
dial drum: at fully clockwise position
①
②
③
④
⑤
⑥
⑦
⑧
3½ turns (counter-clockwise)
tuning shaft

Fig. 2-9.

Pointer Driving Cord

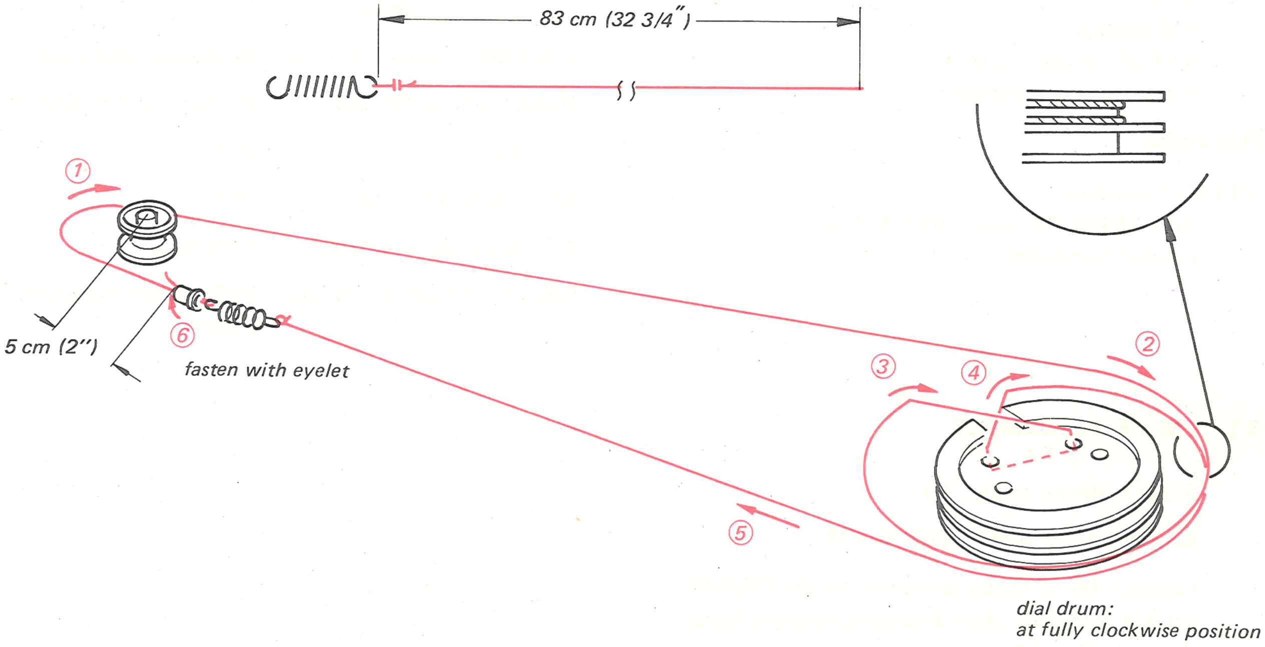

83 cm (32 3/4″)
①
②
③
④
⑤
⑥
5 cm (2″)
fasten with eyelet
dial drum:
at fully clockwise position

Fig. 2-10.

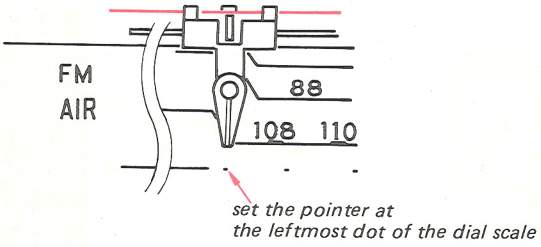

FM
AIR
88
108
110
set the pointer at
the leftmost dot of the dial scale

Fig. 2-11.

SECTION 3

CIRCUIT ADJUSTMENTS

Test Equipment/Tools Required:

Rf signal generator (for FM and AM)
Loop antenna
VTVM
8 Ω resistor
0.01 μF ceramic capacitor
Screwdriver for alignment

Preparation

VTVM Connection:
To EARPHONE jack with 8 Ω load resistor in parallel

Modulation:

FM	400 Hz, ±22.5 kHz frequency-modulated signal
AM	400 Hz, 30-% amplitude-modulated signal

VOLUME Control Setting:	Mechanical mid position
TONE Control Setting:	Mechanical mid position
AFC Switch:	OFF
BFO Control Setting:	OFF
RF Gain Control Setting:	NORMAL
SQUELCH Control Setting:	Fully counterclockwise position

3-1. FM I-F ALIGNMENT

Setup is shown in Fig. 3-1.

Set the BAND SELECTOR to FM.

Connect the rf signal generator to the FM/AIR ext ant terminals after detaching antenna lug as shown in Fig. 3-2.

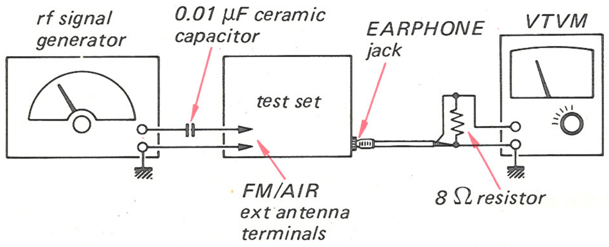


Fig. 3-1. FM/AIR i-f alignment, frequency coverage and tracking adjustment setup

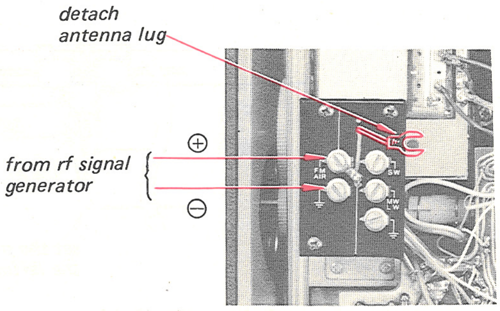


Fig. 3-2. Rf signal generator coupling

Rf Signal Generator Frequency	Rf Signal Modulation	Adjust	Remarks
10.7 MHz	400 Hz, 30% AM modulation	IFT F-4 See Fig. 3-6.	Adjust for minimum meter reading(*1).
10.7 MHz	400 Hz, ±22.5 kHz FM modulation	IFT F-1 IFT F-2(*2) IFT F-3 See Fig. 3-4 and Fig. 3-6.	Set the tuning knob at the best signal position. Adjust for maximum meter reading.

Note: *1. Minimum output will be observed at both extremes of the discriminator. The real null point will be obtained in the middle of the core thread length and maximum output will be obtained at both sides of the true null point. Slowly and carefully turn the core to obtain minimum output.

*2. IFT F-2 is unable to adjust from rear part of the set. Remove the front panel and adjust IFT F-2 from front part. (See Fig. 3-4).

3-2. AM I-F ALIGNMENT

AM i-f alignment can be eliminated except when necessary. The ceramic filter CFT is factory preset and i-f transformer IFT A1 is shielded by shield case. The intermediate frequency of the set is characterized by the ceramic filter because a ceramic filter has a peculiar vibrating frequency which depends on its size.

Preparation:

POWER switch : ON
BAND SELECTOR : MW
BFO switch : OFF
Rf Signal Generator Coupling:
Loop antenna (See Fig. 3-3)
Modulation:
400 Hz 30 % amplitude-modulated signal

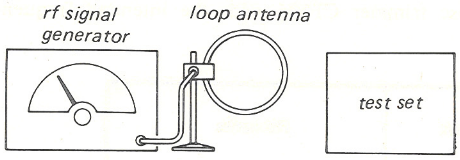


Fig. 3-3. AM i-f alignment and bfo osc coil adjustment setup

Modulate the rf signal with 400 Hz AM modulation. Vary the rf signal around 455 kHz to find i-f frequency of the set. The dial of the rf signal generator shows i-f frequency of the set when the output power of the speaker becomes maximum. If the peak of the output power is not found around 455 kHz, adjust the ceramic filter cores after removing front panel and dial drum as shown in Fig. 3-4.

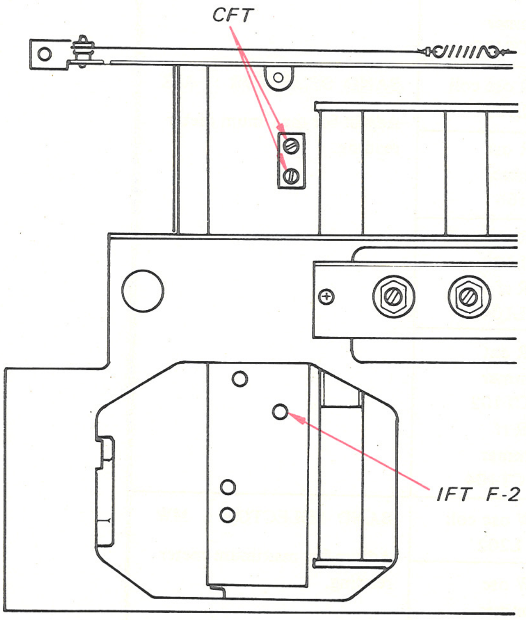


Fig. 3-4. Adjustment locations

3-3. BFO OSC COIL ADJUSTMENT

Preparation:

POWER switch: ON
BAND SELECTOR: MW
BFO switch: ON
BFO Control Setting:
Mechanical mid position as shown in Fig. 3-5.
Rf Signal Generator Coupling: Loop antenna
Setup: See Fig. 3-3.

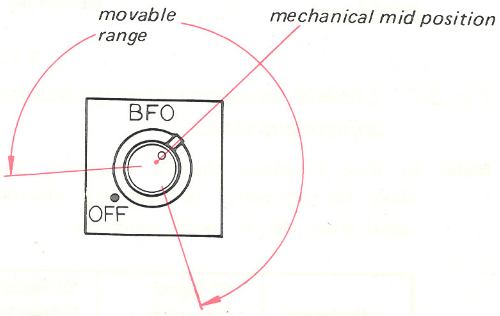


Fig. 3-5. BFO control setting

Rf Signal Generator Frequency	Adjust	Remarks
455 kHz unmodulated signal (*)	BFO osc coil L220 See Fig. 3-6.	Adjust for zero beating.

Note: (*) Tune the rf signal generator frequency to the i-f frequency of the set which is found in AM I-F ALIGNMENT.

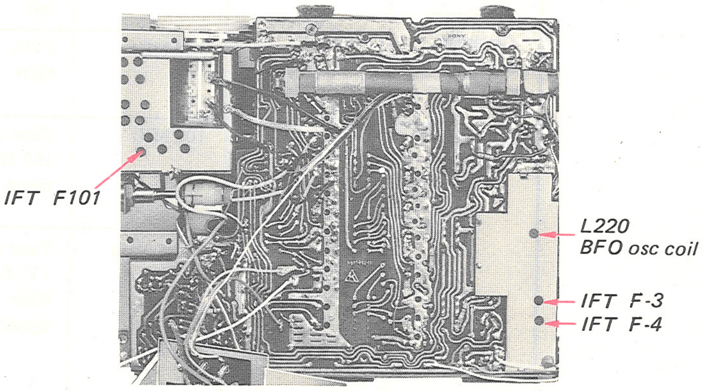


Fig. 3-6. Adjustment locations

3-4. FREQUENCY COVERAGE AND TRACKING ADJUSTMENT

Setup:	FM/AIR	See Fig. 3-1.
	LW/MW	See Fig. 3-7.
	SW1 – 5	See Fig. 3-8.

Note: Fully telescope the telescopic antenna.

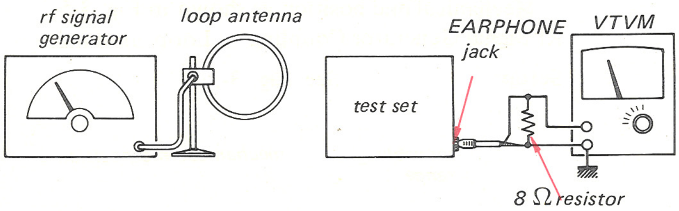

rf signal generator
loop antenna
test set
EARPHONE jack
VTVM
8 Ω resistor

Fig. 3-7. LW/MW frequency coverage and tracking adjustment setup

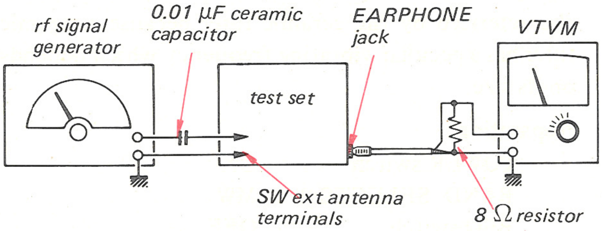

rf signal generator
0.01 μF ceramic capacitor
test set
EARPHONE jack
VTVM
SW ext antenna terminals
8 Ω resistor

Fig. 3-8. SW1-5 frequency coverage and tracking adjustment setup

Note: In West Germany the FM frequency coverage should be within the range between 87.5 MHz and 108 MHz. Make the frequency coverage by adjusting osc coil L106 and osc trimmer CT105 with the intended frequency signal from the rf signal generator.

Adjustment	Rf Signal Generator Coupling	Rf Signal Generator Frequency	Receiver Pointer Setting	Adjust	Remarks
FM Frequency Coverage	To FM/AIR ext ant terminal by detaching ant lug (See Fig. 3-2)	86.5 MHz	Fully left	FM osc coil L106	BAND SELECTOR : FM Adjust for maximum meter reading.
		109.5 MHz	Fully right	FM osc trimmer CT105	
FM Tracking		86.5 MHz	Tune in 86.5 MHz signal	FM ant coil L101 FM rf coil L103	
		109.5 MHz	Tune in 109.5-MHZ signal	FM ant trimmer CT101 FM rf trimmer CT103	
AIR Frequency Coverage	– ditto –	107 MHz	Fully left	AIR osc coil L107	BAND SELECTOR : AIR Adjust for maximum meter reading.
		138 MHz	Fully right	AIR osc trimmer CT106	
AIR Tracking		107 MHz	Tune in 107 MHz signal	AIR ant coil L102 AIR rf coil L104	
		137.5 MHz	Tune in 137.5-MHz signal	AIR ant trimmer CT102 AIR rf trimmer CT104	
MW Frequency Coverage	Loop antenna (See Fig. 3-7)	520 kHz	Fully left	MW osc coil L202	BAND SELECTOR : MW Adjust for maximum meter reading.
		1,680 kHz	Fully right	MW osc trimmer CT202	

Adjustment	Rf Signal Generator Coupling	Rf Signal Generator Frequency	Receiver Pointer Setting	Adjust	Remarks
MW Tracking	Loop antenna	620 kHz	Tune in 620 kHz signal	Position of MW ant coil L210	BAND SELECTOR: MW Adjust for maximum meter reading
		1,400 kHz	Tune in 1,400-kHz signal	MW ant trimmer CT209	
LW Frequency Coverage	Loop antenna	145 kHz	Fully left	LW osc coil L201	BAND SELECTOR : LW Adjust for maximum meter reading.
		410 kHz	Fully right	LW osc trimmer CT201	
LW Tracking		160 kHz	Tune in 160 kHz signal	Position of LW ant coil L208	
		360 kHz	Tune in 360 kHz signal	LW ant trimmer CT208	
SW1 Frequency Coverage	To SW ext ant terminal (see Fig. 3-8)	1.55 MHz	Fully left	SW1 osc coil L203	BAND SELECTOR : SW1 Adjust for maximum meter reading.
		3.6 MHz	Fully right	SW1 osc trimmer CT203	
SW1 Tracking		1.55 MHz	Tune in 1.55 MHz signal	SW1 ant coil L211	
		3.6 MHz	Tune in 3.6 MHz signal	SW1 ant trimmer CT210	
SW2 Frequency Coverage	– ditto –	3.4 MHz	Fully left	SW2 osc coil L204	BAND SELECTOR : SW2 Adjust for maximum meter reading.
		9.2 MHz	Fully right	SW2 osc trimmer CT204	
SW2 Tracking		3.4 MHz	Tune in 3.4 MHz signal	SW2 ant coil L212	
		9.2 MHz	Tune in 9.2 MHz signal	SW2 ant trimmer CT211	
SW3 Frequency Coverage	– ditto –	8.9 MHz	Fully left	SW3 osc coil L205	BAND SELECTOR : SW3 Adjust for maximum meter reading.
		14.3 MHz	Fully right	SW3 osc trimmer CT205	
SW3 Tracking		8.9 MHz	Tune in 8.9 kHz signal	SW3 antcoil L213	
		14.3 MHz	Tune in 14.3 kHz signal	SW3 ant trimmer CT212	

Adjustment	Rf Signal Generator Coupling	Rf Signal Generator Frequency	Receiver Pointer Setting	Adjust	Remarks
SW4 Frequency Coverage	– ditto –	13.8 MHz	Fully left	SW4 osc coil L206	BAND SELECTOR : SW4 Adjust for maximum meter reading.
		21.4 MHz	Fully right	SW4 osc trimmer CT206	
SW4 Tracking		13.8 MHz	Tune in 13.8 MHz signal	SW4 ant coil L214	
		21.4 MHz	Tune in 21.4 MHz signal	SW4 ant trimmer CT213	
SW5 Frequency Coverage	– ditto –	20.7 MHz	Fully left	SW5 ant coil L207	BAND SELECTOR : SW5 Adjust for maximum meter reading.
		27.MHz	Fully right	SW5 osc trimmer CT207	
SW5 Tracking		20.7 MHz	Tune in 20.7 MHz signal	SW5 ant coil L215	
		27 MHz	Tune in 27 MHz signal	SW5 ant trimmer CT214	

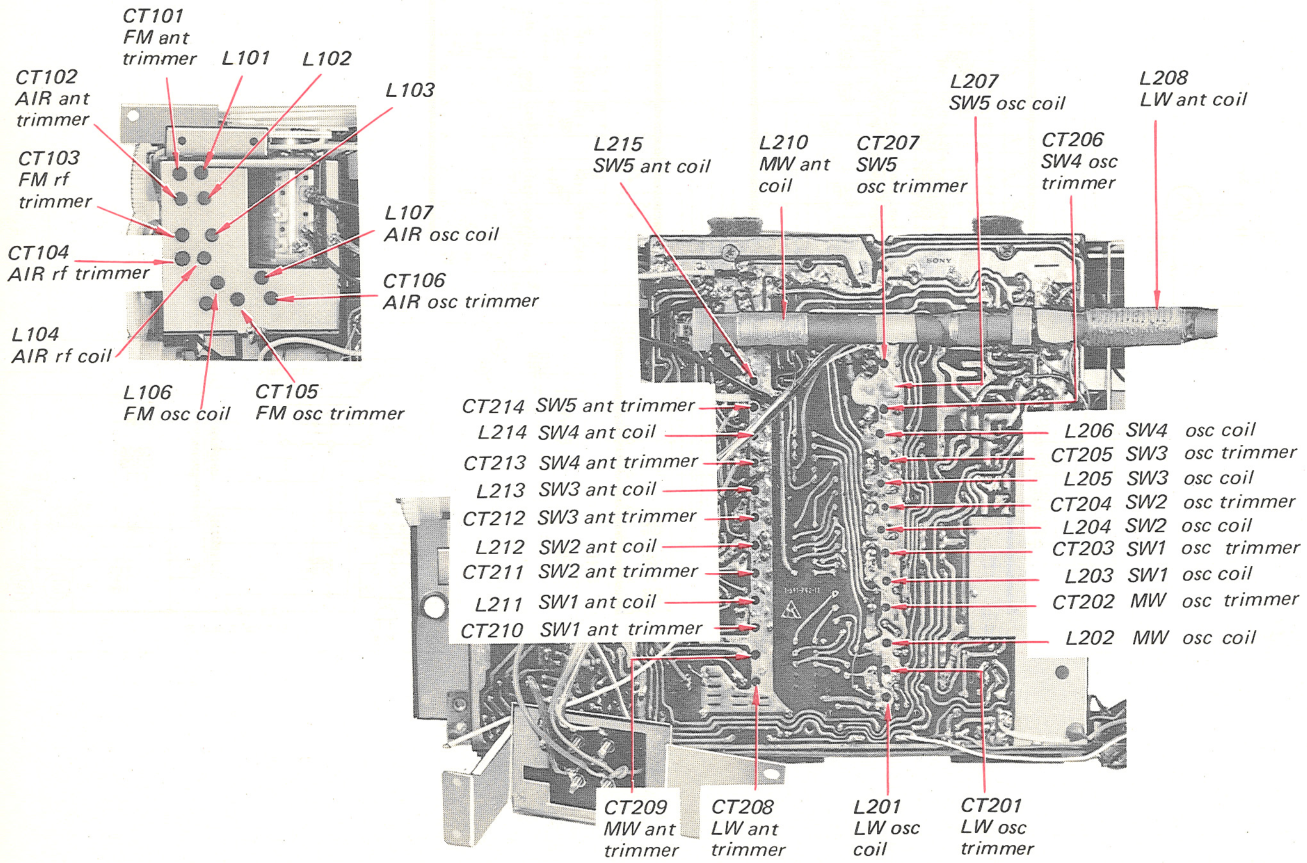
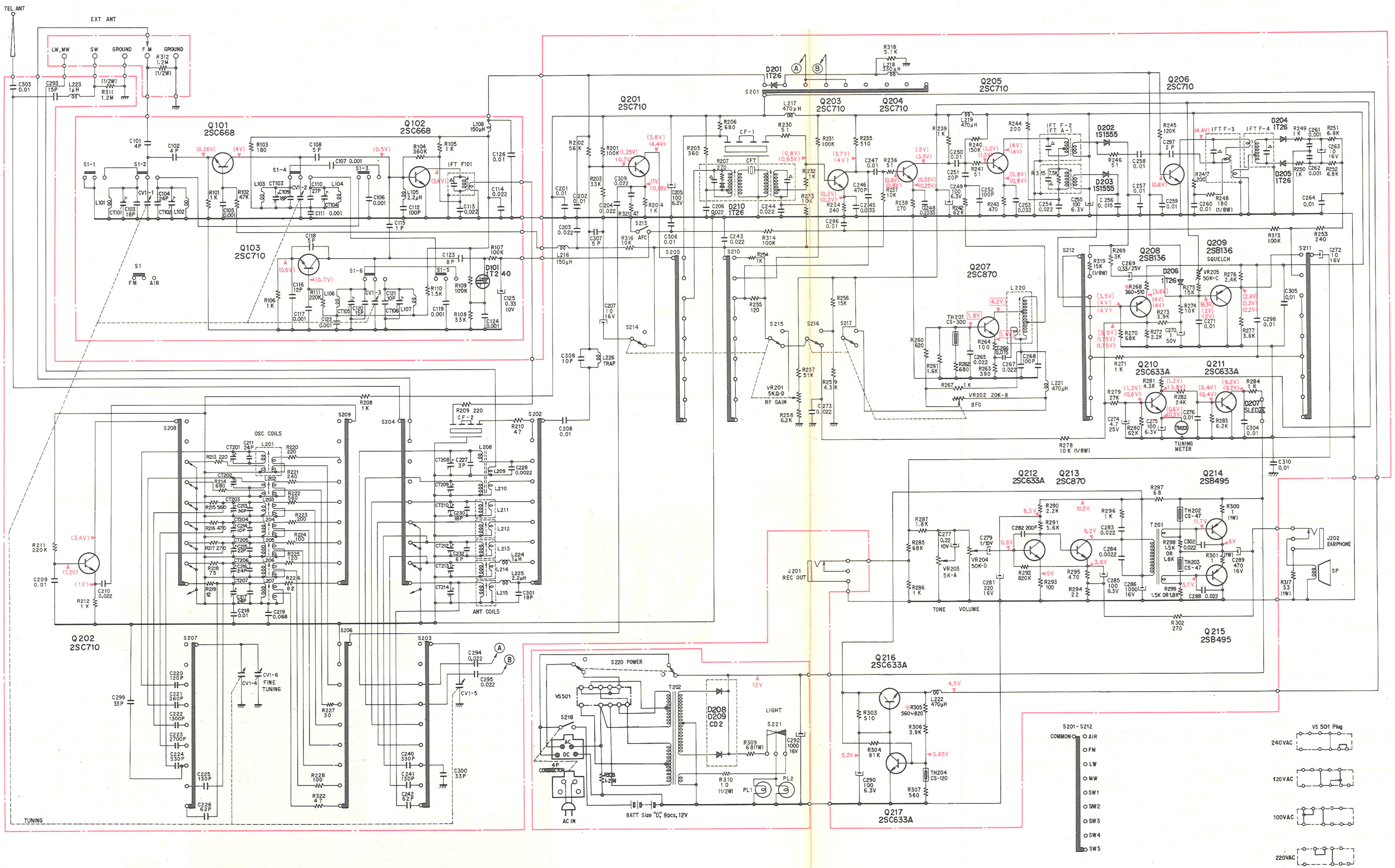

CT101 FM ant trimmer
L101
L102
CT102 AIR ant trimmer
L103
CT103 FM rf trimmer
L107 AIR osc coil
CT104 AIR rf trimmer
CT106 AIR osc trimmer
L104 AIR rf coil
L106 FM osc coil
CT105 FM osc trimmer
L207 SW5 osc coil
L208 LW ant coil
L215 SW5 ant coil
L210 MW ant coil
CT207 SW5 osc trimmer
CT206 SW4 osc trimmer
CT214 SW5 ant trimmer
L214 SW4 ant coil
CT213 SW4 ant trimmer
L213 SW3 ant coil
CT212 SW3 ant trimmer
L212 SW2 ant coil
CT211 SW2 ant trimmer
L211 SW1 ant coil
CT210 SW1 ant trimmer
L206 SW4 osc coil
CT205 SW3 osc trimmer
L205 SW3 osc coil
CT204 SW2 osc trimmer
L204 SW2 osc coil
CT203 SW1 osc trimmer
L203 SW1 osc coil
CT202 MW osc trimmer
L202 MW osc coil
CT209 MW ant trimmer
CT208 LW ant trimmer
L201 LW osc coil
CT201 LW osc trimmer

Fig. 3-9. Adjusting parts locations

SECTION 4
DIAGRAMS

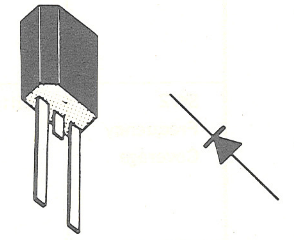
4-1. SCHEMATIC DIAGRAM


TEL ANT
EXT ANT
LW, MW
SW
GROUND
FM
GROUND
Q101 2SC668
Q102 2SC668
Q103 2SC710
IFT F101
D101 1T240
S1
FM
AIR
Q201 2SC710
Q203 2SC710
Q204 2SC710
Q205 2SC710
Q206 2SC710
D201 1T26
D202 1S1555
D203 1S1555
D204 1T26
D205 1T26
D206 1T26
D210 1T26
CF-1
CFT
IFT F-2
IFT A-1
IFT F-3
IFT F-4
L226 TRAP
Q207 2SC870
Q208 2SB136
Q209 2SB136
SQUELCH
Q210 2SC633A
Q211 2SC633A
D207 SLED
TUNING METER
VR201 5KΩ-D RF GAIN
VR202 20K-B BFO
OSC COILS
ANT COILS
Q202 2SC710
CV1-6 FINE TUNING
CV1-5
TUNING
Q212 2SC633A
Q213 2SC870
Q214 2SB495
Q215 2SB495
T201
TH202 CS-47
TH203 CS-47
J201 REC OUT
J202 EARPHONE
SP
VR203 5K-A TONE
VR204 50K-D VOLUME
S220 POWER
VS501
T202
D208 D209 CD2
LIGHT
S221
PL1
PL2
BATT Size "D" 8pcs, 12V
AC IN
Q216 2SC633A
Q217 2SC633A
TH204 CS-120
S201 - S212
COMMON
AIR
FM
LW
MW
SW1
SW2
SW3
SW4
SW5
VS 501 Plug
240VAC
120VAC
100VAC
220VAC

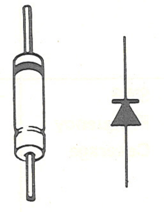
Notes:

1. All resistance values in Ω and all capacitance values in μF unless otherwise noted.
2. All voltages measured to ground circuit with a dc voltmeter with no signal received. Variations may be noted due to normal production tolerances.
3. The values in ( ) measured with band selector set to FM, in < >MW, in [ ] AIR with SQUELCH control at fully counterclockwise position and in ▭ MW with BFO control set to ON.
4. Capacitors marked △ built in i-f transformers and ceramic filter.

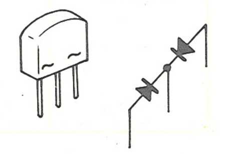
D101 : 1T240



D201, D202, D204~D206, D210 : 1T26
D203 : 1S1555

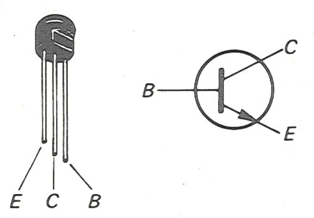


D208, D209 : CD2

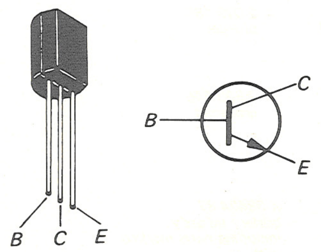


4-2. MOUNTING DIAGRAM

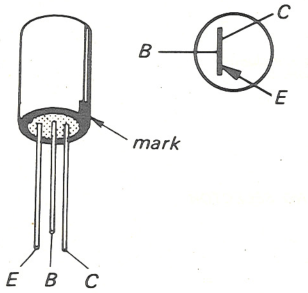
Q101, Q102 : 2SC668



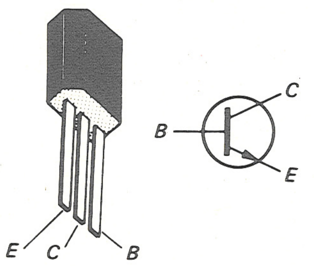
Q103, Q201-Q206 : 2SC710
Q207, Q213 : 2SC870



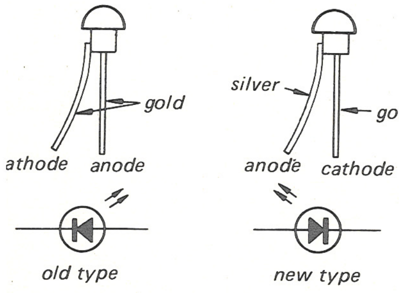
Q208, Q209 : 2SB136
Q214, Q215 : 2SB495

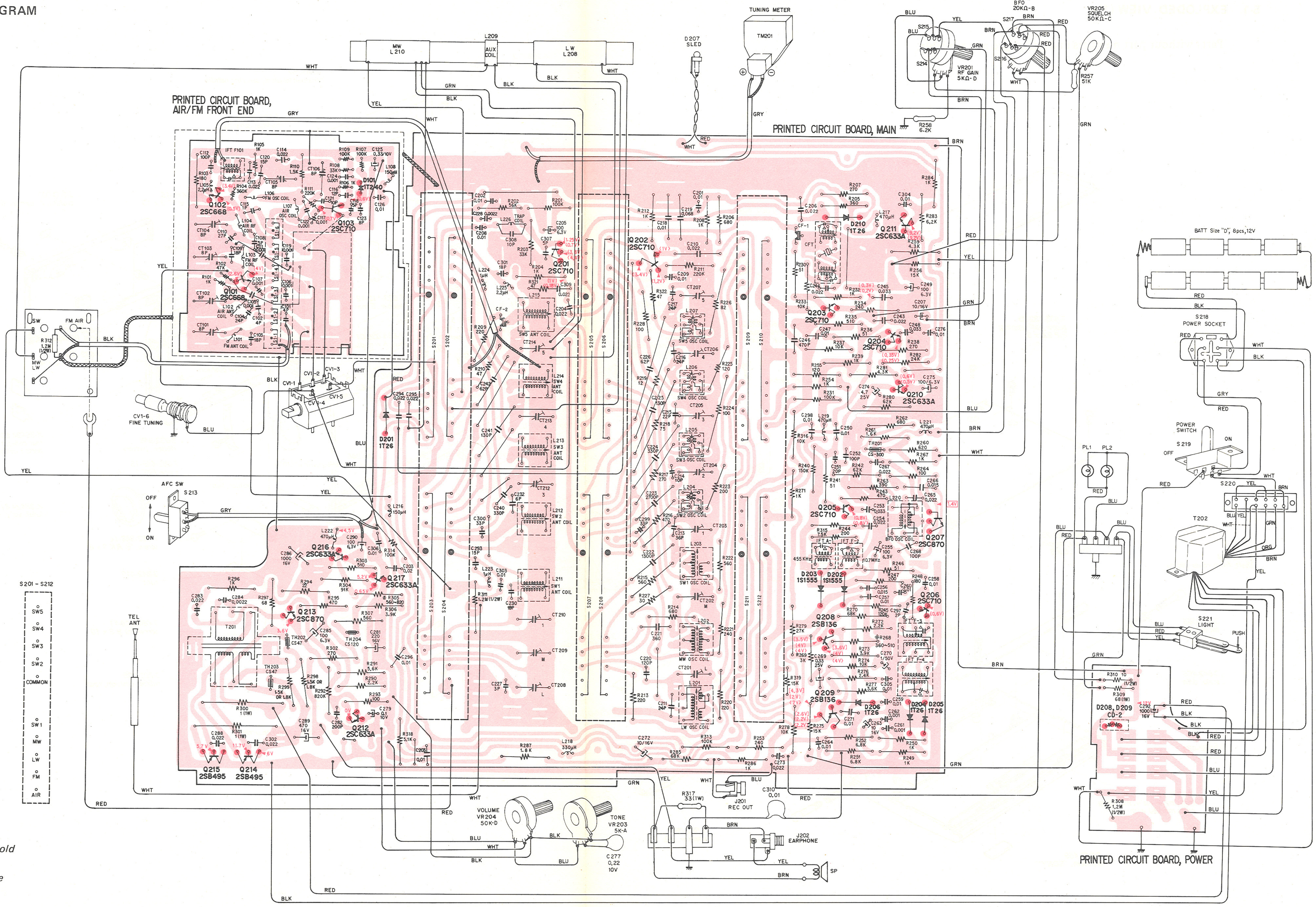

B
C
E
mark
E B C

Q210-Q212, Q216, Q217 :
2SC633A



D207 : SLED

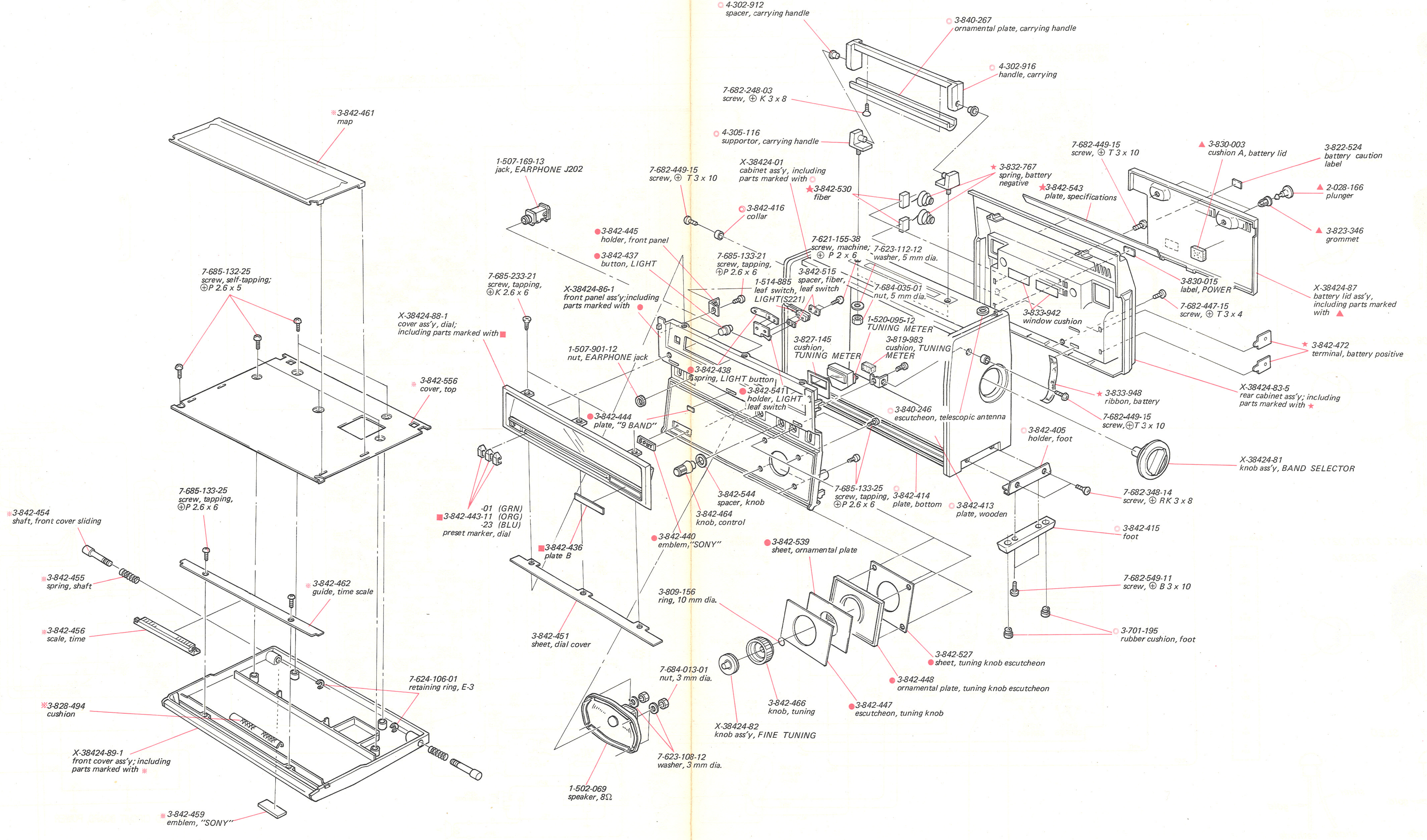

gold
athode
anode
silver
gold
anode
cathode
old type
new type


PRINTED CIRCUIT BOARD, AIR/FM FRONT END
PRINTED CIRCUIT BOARD, MAIN
PRINTED CIRCUIT BOARD, POWER
MW L210
L209 AUX COIL
LW L208
TUNING METER
TM201
D207 SLED
VR202 BFO 20KΩ-B
VR205 SQUELCH 50KΩ-C
VR201 RF GAIN 5KΩ-D
S215
S214
S216
S217
R257 51K
R258 6.2K
BATT Size "D", 8pcs, 12V
S218 POWER SOCKET
POWER SWITCH
S219
OFF
ON
PL1
PL2
S220
T202
S221 LIGHT
PUSH
D208, D209 CD-2
R309 68(1W)
R310 10
C292 1000 16V
R308 1.2M (1/2W)
FM AIR
SW
MW LW
R312 1.2M (1/2W)
CV1-6 FINE TUNING
CV1-1
CV1-2
CV1-3
CV1-4
CV1-5
AFC SW
S213
OFF
ON
TEL ANT
S201 - S212
SW5
SW4
SW3
SW2
COMMON
SW1
MW
LW
FM
AIR
Q101 2SC668
Q102 2SC668
Q103 2SC710
D101 1T240
Q201 2SC710
Q202 2SC710
Q203 2SC710
Q204 2SC710
Q205 2SC710
Q206 2SC710
Q207 2SC870
Q208 2SB136
Q209 2SB136
Q210 2SC633A
Q211 2SC633A
Q212 2SC633A
Q213 2SC870
Q214 2SB495
Q215 2SB495
Q216 2SC633A
Q217 2SC633A
D201 1T26
D203 1S1555
D202 1S1555
D204 1T26
D205 1T26
D206 1T26
D210 1T26
T201
T202 CS47
TH201 CS-300
TH203 CS47
TH204 CS120
L215 SW5 ANT COIL
L214 SW4 ANT COIL
L213 SW3 ANT COIL
L212 SW2 ANT COIL
L211 SW1 ANT COIL
L207 SW5 OSC COIL
L206 SW4 OSC COIL
L205 SW3 OSC COIL
L204 SW2 OSC COIL
L203 SW1 OSC COIL
L202 MW OSC COIL
L201 LW OSC COIL
CF-1
CF-2
IFT A
IFT F-2
IFT F-3
455KHz
10.7MHz
BFO OSC COIL
S201
S202
S203
S204
S205
S206
S207
S208
S209
S210
S211
S212
VOLUME VR204 50K-D
TONE VR203 5K-A
C277 0.22 10V
R317 33(1W)
J201 REC OUT
C310 0.01
J202 EARPHONE
SP
WHT
BLK
GRN
YEL
RED
BLU
BRN
GRY
ORG

SECTION 5
EXPLODED VIEW AND PACKING

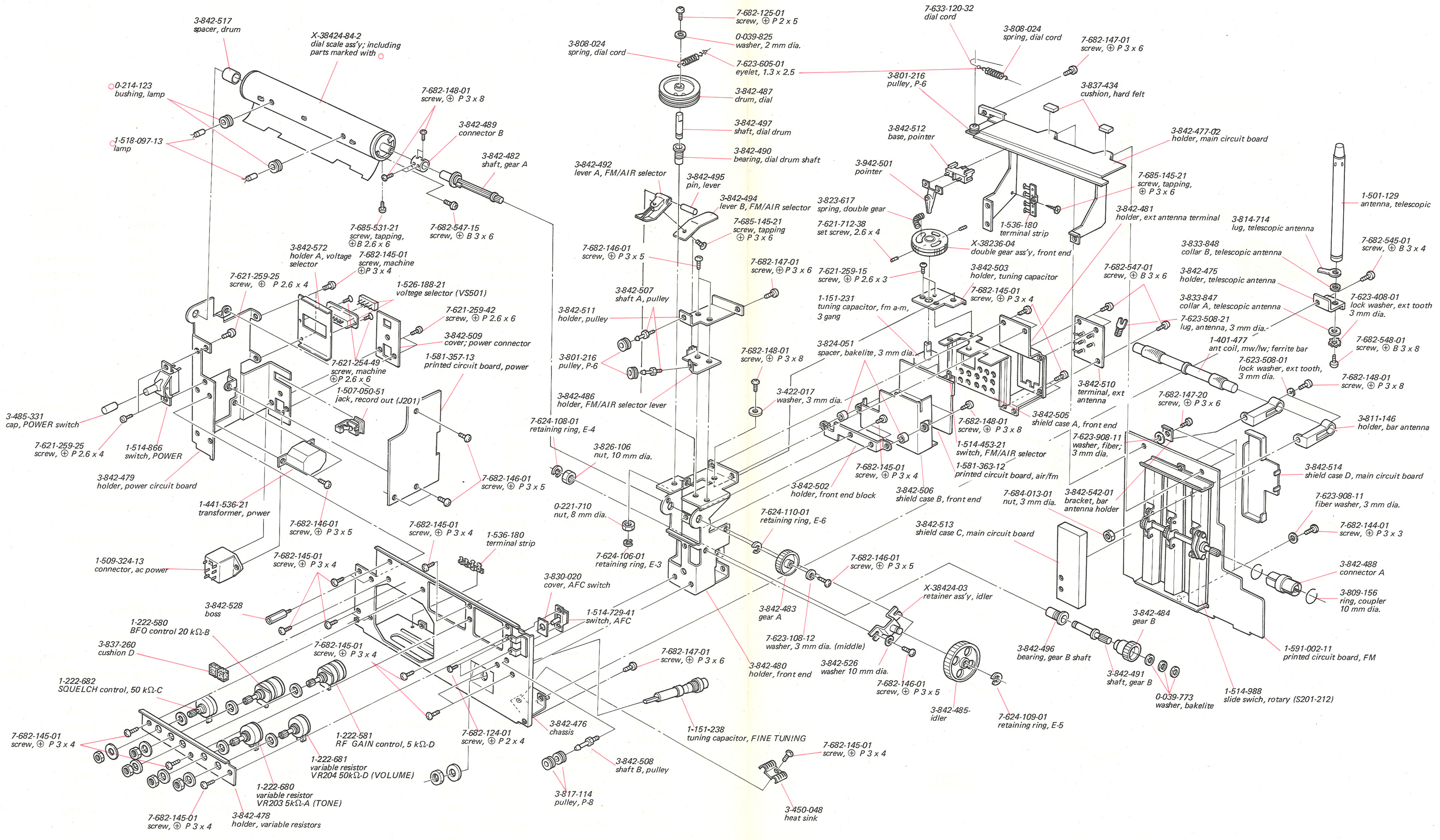
5-1. EXPLODED VIEW (1)

Parts without part numbers and names are not available.

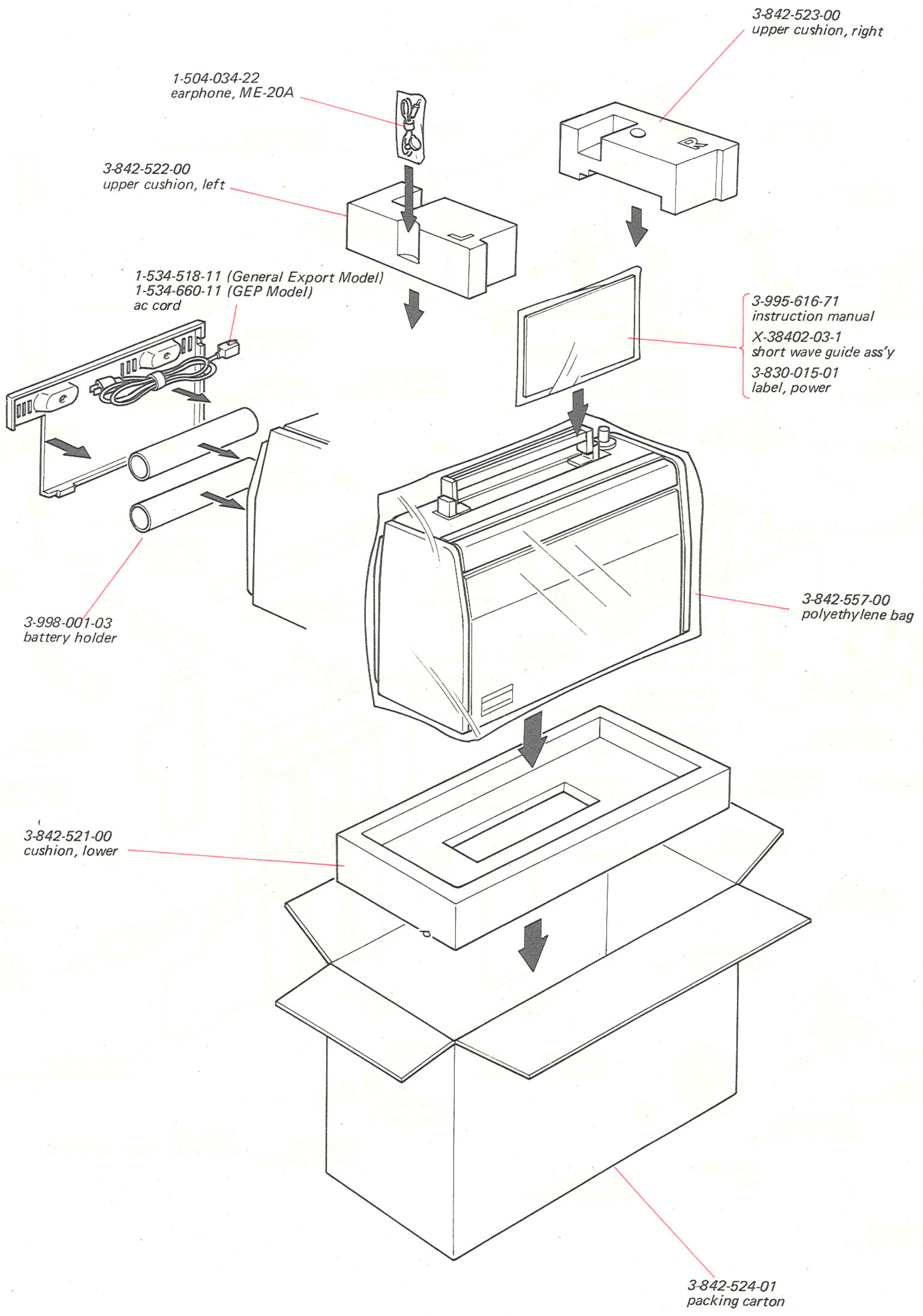

※3-842-461 map
7-685-132-25 screw, self-tapping; ⊕P 2.6 x 5
7-685-133-25 screw, tapping, ⊕P 2.6 x 6
※3-842-454 shaft, front cover sliding
※3-842-455 spring, shaft
※3-842-462 guide, time scale
※3-842-456 scale, time
※3-828-494 cushion
X-38424-89-1 front cover ass'y; including parts marked with ※
7-624-106-01 retaining ring, E-3
※3-842-459 emblem, "SONY"
X-38424-88-1 cover ass'y, dial; including parts marked with ■
※3-842-556 cover, top
1-507-169-13 jack, EARPHONE J202
7-685-233-21 screw, tapping, ⊕K 2.6 x 6
■3-842-443-11 (GRN) -01 (ORG) -23 (BLU) preset marker, dial
■3-842-436 plate B
3-842-451 sheet, dial cover
○4-302-912 spacer, carrying handle
○3-840-267 ornamental plate, carrying handle
○4-302-916 handle, carrying
7-682-248-03 screw, ⊕ K 3 x 8
○4-305-116 supportor, carrying handle
X-38424-01 cabinet ass'y, including parts marked with ○
7-682-449-15 screw, ⊕ T 3 x 10
★3-842-530 fiber
○3-842-416 collar
●3-842-445 holder, front panel
●3-842-437 button, LIGHT
X-38424-86-1 front panel ass'y;including parts marked with ●
7-685-133-21 screw, tapping, ⊕P 2.6 x 6
1-514-885 leaf switch, LIGHT(S221)
7-621-155-38 screw, machine; ⊕ P 2 x 6
3-842-515 spacer, fiber, leaf switch
7-623-112-12 washer, 5 mm dia.
7-684-035-01 nut, 5 mm dia.
1-520-095-12 TUNING METER
3-827-145 cushion, TUNING METER
3-819-983 cushion, TUNING METER
1-507-901-12 nut, EARPHONE jack
●3-842-438 spring, LIGHT button
●3-842-541 holder, LIGHT leaf switch
●3-842-444 plate, "9 BAND"
3-842-544 spacer, knob
3-842-464 knob, control
●3-842-440 emblem, "SONY"
●3-842-539 sheet, ornamental plate
3-809-156 ring, 10 mm dia.
7-684-013-01 nut, 3 mm dia.
3-842-466 knob, tuning
X-38424-82 knob ass'y, FINE TUNING
7-623-108-12 washer, 3 mm dia.
1-502-069 speaker, 8Ω
●3-842-447 escutcheon, tuning knob
●3-842-448 ornamental plate, tuning knob escutcheon
3-842-527 ●sheet, tuning knob escutcheon
○3-840-246 escutcheon, telescopic antenna
7-685-133-25 screw, tapping, ⊕P 2.6 x 6
○3-842-414 plate, bottom
○3-842-413 plate, wooden
★3-832-767 spring, battery negative
★3-842-543 plate, specifications
3-833-942 window cushion
7-682-449-15 screw, ⊕ T 3 x 10
▲3-830-003 cushion A, battery lid
3-822-524 battery caution label
▲2-028-166 plunger
▲3-823-346 grommet
3-830-015 label, POWER
7-682-447-15 screw, ⊕ T 3 x 4
X-38424-87 battery lid ass'y, including parts marked with ▲
★3-842-472 terminal, battery positive
★3-833-948 ribbon, battery
7-682-449-15 screw,⊕T 3 x 10
X-38424-83-5 rear cabinet ass'y; including parts marked with ★
○3-842-405 holder, foot
X-38424-81 knob ass'y, BAND SELECTOR
7-682-348-14 screw, ⊕ RK 3 x 8
○3-842-415 foot
7-682-549-11 screw, ⊕ B 3 x 10
○3-701-195 rubber cushion, foot

5-2. EXPLODED VIEW (2)

Parts without part numbers and names are not available.


3-842-517 spacer, drum
X-38424-84-2 dial scale ass'y; including parts marked with ○
○0-214-123 bushing, lamp
○1-518-097-13 lamp
7-682-148-01 screw, ⊕ P 3 x 8
3-842-489 connector B
3-842-482 shaft, gear A
7-685-531-21 screw, tapping, ⊕B 2.6 x 6
7-682-547-15 screw, ⊕ B 3 x 6
3-842-572 holder A, voltage selector
7-682-145-01 screw, machine ⊕P 3 x 4
7-621-259-25 screw, ⊕ P 2.6 x 4
1-526-188-21 voltege selector (VS501)
7-621-259-42 screw, ⊕ P 2.6 x 6
3-842-509 cover; power connector
7-621-254-49 screw, machine ⊕P 2.6 x 6
1-581-357-13 printed circuit board, power
1-507-050-51 jack, record out (J201)
3-485-331 cap, POWER switch
7-621-259-25 screw, ⊕ P 2.6 x 4
1-514-866 switch, POWER
3-842-479 holder, power circuit board
1-441-536-21 transformer, power
7-682-146-01 screw, ⊕ P 3 x 5
7-682-146-01 screw, ⊕ P 3 x 5
7-682-145-01 screw, ⊕ P 3 x 4
1-536-180 terminal strip
1-509-324-13 connector, ac power
7-682-145-01 screw, ⊕ P 3 x 4
3-842-528 boss
1-222-580 BFO control 20 kΩ-B
3-837-260 cushion D
7-682-145-01 screw, ⊕ P 3 x 4
1-222-682 SQUELCH control, 50 kΩ-C
7-682-145-01 screw, ⊕ P 3 x 4
1-222-581 RF GAIN control, 5 kΩ-D
1-222-681 variable resistor VR204 50kΩ-D (VOLUME)
1-222-680 variable resistor VR203 5kΩ-A (TONE)
7-682-145-01 screw, ⊕ P 3 x 4
3-842-478 holder, variable resistors
7-682-124-01 screw, ⊕ P 2 x 4
3-842-476 chassis
3-817-114 pulley, P-8
3-842-508 shaft B, pulley
3-808-024 spring, dial cord
7-682-125-01 screw, ⊕ P 2 x 5
0-039-825 washer, 2 mm dia.
7-623-605-01 eyelet, 1.3 x 2.5
3-842-487 drum, dial
3-842-497 shaft, dial drum
3-842-490 bearing, dial drum shaft
3-842-492 lever A, FM/AIR selector
3-842-495 pin, lever
3-842-494 lever B, FM/AIR selector
7-685-145-21 screw, tapping ⊕ P 3 x 6
7-682-146-01 screw, ⊕ P 3 x 5
7-682-147-01 screw, ⊕P 3 x 6
3-842-507 shaft A, pulley
3-842-511 holder, pulley
3-801-216 pulley, P-6
7-682-148-01 screw, ⊕ P 3 x 8
3-842-486 holder, FM/AIR selector lever
3-422-017 washer, 3 mm dia.
7-624-108-01 retaining ring, E-4
3-826-106 nut, 10 mm dia.
0-221-710 nut, 8 mm dia.
7-624-106-01 retaining ring, E-3
3-830-020 cover, AFC switch
1-514-729-41 switch, AFC
7-682-147-01 screw, ⊕ P 3 x 6
1-151-238 tuning capacitor, FINE TUNING
3-842-480 holder, front end
7-682-145-01 screw, ⊕ P 3 x 4
3-450-048 heat sink
7-633-120-32 dial cord
3-808-024 spring, dial cord
3-801-216 pulley, P-6
3-842-512 base, pointer
3-942-501 pointer
3-823-617 spring, double gear
7-621-712-38 set screw, 2.6 x 4
1-536-180 terminal strip
X-38236-04 double gear ass'y, front end
7-621-259-15 screw, ⊕ P 2.6 x 3
3-842-503 holder, tuning capacitor
7-682-145-01 screw, ⊕ P 3 x 4
1-151-231 tuning capacitor, fm a-m, 3 gang
3-824-051 spacer, bakelite, 3 mm dia.
7-624-110-01 retaining ring, E-6
3-842-502 holder, front end block
7-682-145-01 screw, ⊕ P 3 x 4
3-842-506 shield case B, front end
7-682-148-01 screw, ⊕ P 3 x 8
1-514-453-21 switch, FM/AIR selector
1-581-363-12 printed circuit board, air/fm
3-842-505 shield case A, front end
7-684-013-01 nut, 3 mm dia.
3-842-542-01 bracket, bar antenna holder
3-842-513 shield case C, main circuit board
7-682-146-01 screw, ⊕ P 3 x 5
X-38424-03 retainer ass'y, idler
3-842-483 gear A
7-623-108-12 washer, 3 mm dia. (middle)
3-842-526 washer 10 mm dia.
7-682-146-01 screw, ⊕ P 3 x 5
3-842-485- idler
7-624-109-01 retaining ring, E-5
3-842-496 bearing, gear B shaft
3-842-484 gear B
3-842-491 shaft, gear B
0-039-773 washer, bakelite
1-514-988 slide swich, rotary (S201-212)
1-591-002-11 printed circuit board, FM
7-682-147-01 screw, ⊕ P 3 x 6
3-837-434 cushion, hard felt
3-842-477-02 holder, main circuit board
7-685-145-21 screw, tapping, ⊕ P 3 x 6
3-842-481 holder, ext antenna terminal
1-501-129 antenna, telescopic
3-814-714 lug, telescopic antenna
3-833-848 collar B, telescopic antenna
7-682-545-01 screw, ⊕ B 3 x 4
7-682-547-01 screw, ⊕ B 3 x 6
3-842-475 holder, telescopic antenna
3-833-847 collar A, telescopic antenna
7-623-408-01 lock washer, ext tooth 3 mm dia.
7-623-508-21 lug, antenna, 3 mm dia.
1-401-477 ant coil, mw/lw; ferrite bar
7-682-548-01 screw, ⊕ B 3 x 8
7-623-508-01 lock washer, ext tooth, 3 mm dia.
7-682-148-01 screw, ⊕ P 3 x 8
3-842-510 terminal, ext antenna
7-682-147-20 screw, ⊕ P 3 x 6
3-811-146 holder, bar antenna
7-623-908-11 washer, fiber; 3 mm dia.
3-842-514 shield case D, main circuit board
7-623-908-11 fiber washer, 3 mm dia.
7-682-144-01 screw, ⊕ P 3 x 3
3-842-488 connector A
3-809-156 ring, coupler 10 mm dia.

5-3. PACKING


3-842-523-00
upper cushion, right
1-504-034-22
earphone, ME-20A
3-842-522-00
upper cushion, left
1-534-518-11 (General Export Model)
1-534-660-11 (GEP Model)
ac cord
3-995-616-71
instruction manual
X-38402-03-1
short wave guide ass'y
3-830-015-01
label, power
3-842-557-00
polyethylene bag
3-998-001-03
battery holder
3-842-521-00
cushion, lower
3-842-524-01
packing carton

SECTION 6
ELECTRICAL PARTS LIST

SEMICONDUCTORS

Ref. No.	*Part No.*	*Description*	
Q101		transistor	2SC668
Q102		transistor	2SC668
Q103		transistor	2SC710
Q201		transistor	2SC710
Q202		transistor	2SC710
Q203		transistor	2SC710
Q204		transistor	2SC710
Q205		transistor	2SC710
Q206		transistor	2SC710
Q207		transistor	2SC870
Q208		transistor	2SB136
Q209		transistor	2SB136
Q210		transistor	2SC633A
Q211		transistor	2SC633A
Q212		transistor	2SC633A
Q213		transistor	2SC870
Q214		transistor	2SB495
Q215		transistor	2SB495
Q216		transistor	2SC633A
Q217		transistor	2SC633A
D101		diode	1T240
D201		diode	1T26
D202		diode	1S1555
D203		diode	1S1555
D204		diode	1T26
D205		diode	1T26
D206		diode	1T26
D207		diode	SLED
D208-D209		diode	CD-2
D210		diode	1T26
TH201	8-690-005	thermistor	CS300
TH202	8-691-002-11	thermistor	CS47
TH203	8-691-002-11	thermistor	CS47
TH204	8-691-001-11	thermistor	CS120

COILS AND TRANSFORMERS

Ref. No.	*Part No.*	*Description*	
L101	1-425-350	ant coil,	FM
L102	1-405-503	ant coil,	AIR
L103	1-425-350	rf coil,	FM
L104	1-405-503	rf coil,	AIR
L105	1-407-182	2.2 μH,	micro inductor
L106	1-405-503	osc coil,	FM
L107	1-405-503	osc coil,	AIR
L108	1-407-171	150 μH,	micro inductor
L201	1-405-497	osc coil,	LW
L202	1-405-399	osc coil,	MW
L203	1-405-451	osc coil,	SW1
L204	1-405-498	osc coil,	SW2
L205	1-405-499	osc coil,	SW3
L206	1-405-500	osc coil,	SW4
L207	1-405-501	osc coil,	SW5
L208 L209 L210	1-401-477	ant coil,	LW/MW; ferrite bar
L211	1-401-373	ant coil,	SW1
L212	1-401-478	ant coil,	SW2
L213	1-401-479	ant coil,	SW3
L214	1-401-480	ant coil,	SW4
L215	1-401-481	ant coil,	SW5
L216	1-407-171	150 μH,	micro inductor
L217	1-407-177	470 μH,	micro inductor
L218	1-407-175	330 μH,	micro inductor
L219	1-407-177	470 μH,	micro inductor
L220	1-405-502	osc coil,	bfo
L221	1-407-177	470 μH,	micro inductor
L222	1-407-177	470 μH,	micro inductor
L223	1-407-178	1 μH,	micro inductor
L224	1-407-178	1 μH,	micro inductor
L225	1-407-182	2.2 μH,	micro inductor
L226	1-401-201	trap coil	
IFT F101	1-403-242-15	transformer,	FM i-f
IFT F-2	1-403-555	transformer,	FM i-f
IFT F-3	1-403-287-11	transformer,	FM discriminator; primary
IFT F-4	1-403-287-21	transformer,	FM discriminator; secondary
IFT A-1	1-403-174	transformer,	AM i-f
CF1	1-527-184-11 1-527-184-15	ceramic fitler,	FM i-f
CF2	1-527-184-11 1-527-184-15	ceramic filter,	FM i-f
CFT	1-403-165-21	ceramic filter,	AM i-f
T201	1-423-140	transformer,	driver
T202	1-441-536-21	transformer,	power

CAPACITORS

All fixed capacitors are in μF unless otherwise specified.

Ref. No.	*Part No.*	*Description*	
CV1-1~5	1-151-231	tuning capacitor, FM/AM 3-gang	
CV1-6	1-151-238	tuning capacitor, FINE TUNING	
CT101	1-141-097-21	capacitor,	trimmer
CT102	1-141-097-21	capacitor,	trimmer
CT103	1-141-097-21	capacitor,	trimmer
CT104	1-141-097-21	capacitor,	trimmer
CT105	1-141-097-21	capacitor,	trimmer
CT106	1-141-097-21	capacitor,	trimmer
C101	1-102-937	4 pF	ceramic
C102	1-102-937	4 pF	ceramic
C103	1-102-953	18 pF	ceramic
C104	1-102-960	24 pF	ceramic

Ref. No.	*Part No.*	*Description*		
C105	1-102-918	0.001	ceramic	
C106	1-102-918	0.001	ceramic	
C107	1-102-918	0.001	ceramic	
C108	1-102-942	5 pF	ceramic	
C109	1-102-953	18 pF	ceramic	
C110	1-102-961	27 pF	ceramic	
C111	1-105-661-12	0.001	mylar	
C112	1-107-085	100 pF	mica	
C113	1-102-924	0.022	ceramic	
C114	1-102-924	0.022	ceramic	
C115	1-102-934	1 pF	ceramic	
C116	1-102-510	12 pF	ceramic	
C117	1-102-918	0.001	ceramic	
C118	1-102-864	5 pF	ceramic	
C119	1-102-918	0.001	ceramic	
C120	1-102-880	15 pF	ceramic	
C121	1-101-999	10 pF	ceramic	
C122	1-105-661-12	0.001	mylar	
C123	1-102-865	8 pF	ceramic	
C124	1-105-661-12	0.001	mylar	
C125	1-127-021	0.33	10 V	electrolytic (alox)
C126	1-105-673-12	0.01	mylar	
CT201	1-141-140	capacitor,	trimmer	
CT202	1-141-140	capacitor,	trimmer	
CT203	1-141-140	capacitor,	trimmer	
CT204	1-141-140	capacitor,	trimmer	
CT205	1-141-140	capacitor,	trimmer	
CT206	1-141-140	capacitor,	trimmer	
CT207	1-141-140	capacitor,	trimmer	
CT208	1-141-140	capacitor,	trimmer	
CT209	1-141-140	capacitor,	trimmer	
CT210	1-141-140	capacitor,	trimmer	
CT211		....		
CT212	1-141-140	capacitor,	trimmer	
CT213	1-141-140	capacitor,	trimmer	
CT214	1-141-140	capacitor,	trimmer	
C201	1-105-673-12	0.01	mylar	
C202	1-105-673-12	0.01	mylar	
C203	1-101-924	0.022	ceramic	
C204	1-105-677-12	0.022	mylar	
C205	1-121-491	100	6.3 V	electrolytic
C206	1-101-924	0.022	ceramic	
C207	1-121-471	10	16 V	electrolytic
C208	1-105-673-12	0.01	mylar	
C209	1-105-673-12	0.01	mylar	
C210	1-105-677-12	0.022	mylar	
C211	1-102-960	24 pF	ceramic	
C212		....		
C213	1-102-964	36 pF	ceramic	
C214	1-102-947	10 pF	ceramic	
C215	1-102-959	22 pF	ceramic	
C216	1-102-960	24 pF	ceramic	
C217	1-102-960	24 pF	ceramic	

Ref. No.	*Part No.*	*Description*		
C218	1-105-673-12	0.01	mylar	
C219	1-105-683-12	0.068	mylar	
C220	1-107-087	120 pF	silvered mica	
C221	1-107-182	370 pF	silvered mica	
C222	1-103-728	1300 pF	styrol	
C223	1-103-735	2700 pF	styrol	
C224	1-107-097	330 pF	silvered mica	
C225	1-107-088	130 pF	silvered mica	
C226	1-107-080	62 pF	silvered mica	
C227	1-102-940	3 pF	ceramic	
C228	1-105-665-12	0.0022	mylar	
C229		....		
C230	1-102-953	18 pF	ceramic	
C231		....		
C232	1-102-943	6 pF	ceramic	
C233		....		
C234		....		
C235		....		
C236		....		
C237		....		
C238		....		
C239		....		
C240	1-107-097	330 pF	silvered mica	
C241	1-107-088	130 pF	silvered mica	
C242	1-107-080	62 pF	silvered mica	
C243	1-105-677-12	0.022	mylar	
C244	1-105-677-12	0.022	mylar	
C245	1-105-679-12	0.033	mylar	
C246	1-107-185	470 pF	silvered mica	
C247	1-105-673-12	0.01	mylar	
C248	1-105-679-12	0.033	mylar	
C249	1-121-491	100	6.3 V	electrolytic
C250	1-105-673-12	0.01	mylar	
C251	1-107-068	20 pF	silvered mica	
C252	1-107-085	100 pF	silvered mica	
C253	1-105-679-12	0.033	mylar	
C254	1-105-677-12	0.022	mylar	
C255	1-121-491	100	6.3 V	electrolytic
C256	1-105-675-12	0.015	mylar	
C257	1-105-673-12	0.01	mylar	
C258	1-105-673-12	0.01	mylar	
C259	1-105-673-12	0.01	mylar	
C260	1-105-673-12	0.01	mylar	
C261	1-105-661-12	0.001	mylar	
C262	1-105-661-12	0.001	mylar	
C263	1-121-471	10	16 V	electrolytic
C264	1-105-673-12	0.01	mylar	
C265	1-105-677-12	0.022	mylar	
C266	1-105-675-12	0.015	mylar	
C267	1-105-677-12	0.022	mylar	
C268	1-102-734	100 pF	ceramic	
C269	1-127-082	0.33	10 V	electrolytic (alox)
C270	1-121-442	1	50 V	electrolytic

Ref. No.	*Part No.*	*Description*		
C271	1-105-673-12	0.01	mylar	
C272	1-121-471	10	16 V	electrolytic
C273	1-105-677-12	0.022	mylar	
C274	1-121-464	4.7	25 V	electrolytic
C275	1-121-491	100	6.3 V	electrolytic
C276	1-105-673-12	0.01	mylar	
C277	1-127-046	0.22	10 V	electrolytic (alox)
C278		....		
C279	1-127-045	0.1	10 V	electrolytic (alox)
C280		....		
C281	1-121-421	220	16 V	electrolytic
C282	1-102-098	470 pF	ceramic	
C283	1-105-677-12	0.022	mylar	
C284	1-105-665-12	0.0022	mylar	
C285	1-121-491	100	6.3 V	electrolytic
C286	1-121-186	1000	16 V	electrolytic
C287		....		
C288	1-105-677-12	0.022	mylar	
C289	1-121-426	470	16 V	electrolytic
C290	1-121-491	100	6.3 V	electrolytic
C291		....		
C292	1-121-186	1000	16 V	electrolytic
C293	1-102-951	15 pF	ceramic	
C294	1-101-924	0.022	ceramic	
C295	1-101-924	0.022	ceramic	
C296	1-105-673-12	0.01	mylar	
C297	1-102-939	2 pF	ceramic	
C298	1-105-673-12	0.01	mylar	
C299	1-102-963	33 pF	ceramic	
C300	1-102-963	33 pF	ceramic	
C301	1-102-953	18 pF	ceramic	
C302	1-105-677-12	0.022	mylar	
C303	1-101-923	0.01	ceramic	
C304	1-101-923	0.01	ceramic	
C305	1-105-673-12	0.01	mylar	
C306	1-101-923	0.01	ceramic	
C307	1-102-942	5 pF	ceramic	
C308	1-102-947	10 pF	ceramic	
C309	1-105-677-12	0.022	mylar	
C310	1-101-923	0.01	ceramic	

RESISTORS

All fixed resistors are in Ω, ¼W, ± 5 %, carbon film type unless otherwise noted.

Ref. No.	*Part No.*	*Description*	
VR201	1-222-581	RF GAIN control	5 kΩ D
VR202	1-222-580	BFO control	20 kΩ B
VR203	1-222-680	TONE control	5 kΩ A
VR204	1-222-681	VOLUME control	50 kΩ D
VR205	1-222-682	SQUELCH control	50 kΩ C
R101	1-242-673	1 k	
R102	1-242-713	47 k	
R103	1-244-655	180	
R104	1-244-734	360 k	
R105	1-242-673	1 k	
R106	1-242-673	1 k	
R107	1-242-721	100 k	
R108	1-242-709	33 k	
R109	1-242-721	100 k	
R110	1-242-677	1.5 k	
R111	1-242-729	220 k	
R201	1-244-721	100 k	
R202	1-244-715	56 k	
R203	1-244-709	33 k	
R204	1-244-673	1 k	
R205	1-244-662	360	
R206	1-244-669	680	
R207	1-244-659	270	
R208	1-244-673	1 k	
R209	1-244-657	220	
R210	1-244-641	47	
R211	1-244-729	220 k	
R212	1-244-673	1 k	
R213	1-244-657	220	
R214	1-244-669	680	
R215	1-244-667	560	
R216	1-244-665	470	
R217	1-244-659	270	
R218	1-244-646	75	
R219	1-244-627	12	
R220	1-244-657	220	
R221	1-244-658	240	
R222	1-244-667	560	
R223	1-244-656	200	
R224	1-244-649	100	
R225	1-244-651	120	
R226	1-244-647	82	
R227	1-244-636	30	
R228	1-244-649	100	
R229		....	
R230	1-244-642	51	
R231	1-244-721	100 k	
R232	1-244-673	1 k	
R233	1-244-697	10 k	
R234	1-244-658	240	
R235	1-244-666	510	
R236	1-244-642	51	
R237	1-244-697	10 k	
R238	1-244-659	270	
R239	1-244-673	1 k	
R240	1-244-725	150 k	
R241	1-244-642	51	
R242	1-244-716	62 k	
R243	1-244-665	470	
R244	1-244-656	200	
R245	1-244-723	120 k	
R246	1-244-642	51	
R247	1-244-656	200	

Ref. No.	Part No.	Description		
R248	1-201-829	180	⅛ W	composition
R249	1-244-673	1 k		
R250	1-244-673	1 k		
R251	1-244-693	6.8 k		
R252	1-244-693	6.8 k		
R253	1-244-658	240		
R254	1-244-673	1 k		
R255	1-244-651	120		
R256	1-244-701	15 k		
R257	1-244-714	51 k		
R258	1-244-692	6.2 k		
R259	1-244-688	4.3 k		
R260	1-244-668	620		
R261	1-244-678	1.6 k		
R262	1-244-669	680		
R263	1-244-663	390		
R264	1-244-649	100		
R265		....		
R266		....		
R267	1-244-673	1 k		
※R268	1-244-662	360		
	1-244-663	390		
	1-244-664	430		
	1-244-665	470		
	1-244-666	510		
R269	1-244-684	3 k		
R270	1-244-717	68 k		
R271	1-244-673	1 k		
R272	1-244-681	2.2 k		
R273	1-244-687	3.9 k		
R274	1-244-697	10 k		
R275	1-244-701	15 k		
R276	1-244-682	2.4 k		
R277	1-244-686	3.6 k		
R278	1-201-865	10 k	⅛ W	composition
R279	1-244-707	27 k		
R280	1-244-716	62 k		
R281	1-244-688	4.3 k		
R282	1-244-706	24 k		
R283	1-244-692	6.2 k		
R284	1-244-673	1 k		
R285	1-244-717	68 k		
R286	1-244-673	1 k		
R287	1-244-679	1.8 k		
R288		....		
R289		....		
R290	1-244-681	2.2 k		
R291	1-244-691	5.6 k		
R292	1-244-743	820 k		
R293	1-244-649	100		
R294	1-244-633	22		
R295	1-244-665	470		
R296	1-244-673	1 k		
R297	1-244-645	68		

Ref. No.	Part No.	Description		
※R298	1-244-677	1.5 k		
	1-244-679	1.8 k		
※R299	1-244-677	1.5 k		
	1-244-679	1.8 k		
R300	1-210-226	1	1 W	carbon
R301	1-210-226	1	1 W	carbon
R302	1-244-659	270		
R303	1-244-666	510		
R304	1-244-720	91 k		
※R305	1-244-667	560		
	1-244-668	620		
	1-244-669	680		
	1-244-670	750		
	1-244-671	820		
R306	1-244-687	3.9 k		
R307	1-244-667	560		
R308	1-202-647	1.2 M	½ W	composition
R309	1-202-762	68	1 W	composition
R310	1-202-525	10	½ W	composition
R311	1-202-647	1.2 M	½ W	composition
R312	1-202-647	1.2 M	½ W	composition
R313	1-244-721	100 k		
R314	1-244-721	100 k		
R315	1-244-694	7.5 k		
R316	1-244-697	10 k		
R317	1-209-154	33	1 W	composition
R318	1-244-690	5.1 k		
R319	1-201-866	15 k	⅛ W	composition
R320		....		
R321	1-244-641	47		
R322	1-244-641	47		

MISCELLANEOUS

TEL ANT	1-501-129	antenna, telescopic
SP	1-502-069	speaker
J201	1-507-050-51	jack, record out
J202	1-507-169-13	jack, EARPHONE
	1-507-901-12	nut, EARPHONE jack
TM201	1-520-095-12	TUNING METER
PL1	1-518-097-13	lamp, LIGHT 5 V 50 mA
PL2	1-518-097-13	lamp, LIGHT 5 V 50 mA
S1	1-514-453-21	switch, FM/AIR selector
S201-212	1-514-902	switch, band selector
S213	1-514-729-41	switch, AFC
S218	1-509-324-13	connector, ac power
S219-220	1-514-866-21	switch, POWER
S221	1-514-885-00	leaf switch, LIGHT
	1-581-362-13	printed circuit board, main
	1-581-363-12	printed circuit board, AIR/FM front end
	1-581-357-12	printed circuit board, power
	1-536-180-00	terminal strip, 4-pin
	8-981-425-16	mounted circuit board, main
	8-981-425-90	mounted circuit board, AIR/FM front end
		mounted circuit board, power supply
VS501	1-526-188-21	voltage selector

※ : to be selected.

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